

**TABLE 8-1 (SHEET 1 OF 2)
SUMMARY TABLE FOR DATA NEEDS ASSESSMENT**

Data Need Activity	Uncertainty
Review database for completeness of historical analytical data and identify specific analytical data needed for use in risk assessments and remedial alternative selection	Reliability and comprehensiveness of historic data
Collect sediment, floodplain soil and biota data to confirm historical concentrations and distribution of contaminants in sediments and floodplain soils post Hurricane Floyd	Stability of contaminant distribution in sediments and floodplain soils
Collect surface water, sediment and flood plain soil and biota data for evaluating contamination in Corridor areas not previously sampled.	Contaminant distribution in portions of OU4 not sampled during previous sampling effort
Collect sediment and surface water data from tributaries or other sites in Bound Brook Corridor for contaminants of concern	Other source contributions to Bound Brook Corridor
Collect hydrological data on brook discharge volume data, velocity data, stream morphology data and identify scouring and depositional areas for alluvial sediments in the Bound Brook Corridor	Hydrological patterns and factors affecting contaminant distributions in sediments
Verify that existing analytical data are usable and applicable for development of exposure point concentrations in the environmental media of concern	Existing data quality and quantity
Collect data needed for performing a probabilistic ecological risk assessment for the Bound Brook Corridor	Variability in ecological exposure parameters
Collect data to assess exposure and characterize risks to ecological receptors (all) in areas of corridor	Ecological risks in portions where no ecological risk assessment was performed
Collect data on chronic toxicological and bioavailability of contaminants in sediments and soils	Contaminant mobilization and introduction into food chain and remedial goal development
Collect data to assess exposure and characterize risks to amphibians and reptiles in the Bound Brook Corridor	Exposure and risks to these receptor groups
Assess risk to insectivorous birds and mammals and piscivorous mammals in the Bound Brook Corridor	Exposure and risks to these receptor groups

**TABLE 8-1 (SHEET 2 OF 2)
SUMMARY TABLE FOR DATA NEEDS ASSESSMENT**

Data Need Activity	Uncertainty Requiring Data Need
Collect or locate climatological data affecting the mobilization and entrainment of soil particles within the Bound Brook Corridor	Outdoor air exposure to contaminants in Bound Brook Corridor
Collect data on residential, commercial and industrial properties present within the Bound Brook Corridor and exposure routes to human receptors	Complete pathways for certain receptors
Collect data on the presence of construction, culvert, outfall worker receptor groups based upon presence of these structures and exposure routes	Exposure and risks to construction, culvert and outfall worker receptor groups
Collect data on fish species caught and consumed from brook and lake environments by recreators	Exposure and risks to shoreline and lake recreator
Collect data on non-angling recreator activities along shoreline of lakes, ponds, parks and Green Acres property	Exposure and risks to shoreline, lake and park recreator
Determine accessibility of human receptors to areas of the brook channel in the Bound Brook Corridor	Exposure and risks to shoreline recreator
Collect and evaluate data on morphological changes of Bound Brook Corridor	Changing site conditions during remedy selection, design and implementation
Identify and perform treatability studies of potentially applicable technologies and develop and implement a long-term monitoring program after implementation	Long-term effectiveness and stability of <i>in situ</i> or innovative technologies
Obtain current town Master Plan and zoning regulations and State Master Plan	Unanticipated future land uses
Ascertain stakeholder requirements/preferences	Stakeholder acceptance of preferred remedy